

Insolation Levels (Asia-Pacific)

Average Insolation (10 year average) kWh/m²/day

Countr	State/City	Latitude	Longitud	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year Avg
AE	Abu Dhabi	24' 28" N	54' 22" E	3.92	4.5	5.22	5.87	7.06	7.33	6.9	6.64	6.39	5.53	4.54	3.79	5.64
AU	Adelaide	34" 55" S	138" 36"	7.2	6.58	5.18	3.85	2.65	2.23	2.48	3.2	4.46	5.69	6.59	6.74	4.74
AU	Brisbane	27" 99" S	153" 8" E	6.93	6.09	5.44	4.34	3.5	3.29	3.52	4.43	5.62	6.18	6.74	6.93	5.25
AU	Hobart	42" 52" S	147" 19"	5.97	5.33	4.05	2.73	1.79	1.44	1.68	2.41	3.6	4.78	5.92	6.18	3.82
AU	Melbourne	37" 47" S	144" 58"	6.78	6.22	4.76	3.4	2.29	1.84	2.04	2.79	3.94	5.27	6.28	6.46	4.34
AU	Perth	31" 57" S	115" 52"	7.7	6.75	5.41	4.16	3.06	2.67	2.89	3.66	4.76	6.09	7.04	7.76	5.16
AU	Sydney	34" S	151" 0" E	6.34	5.68	4.87	3.6	2.74	2.5	2.67	3.53	4.67	5.61	6.32	6.6	4.59
BD	Dhaka	23' 42" N	90' 22" E	4.44	5.08	5.87	6.06	5.5	4.41	4.09	4.37	4.17	4.5	4.37	4.13	4.75
CN	Beijing	39' 55" N	116' 25" E	2.37	2.92	3.58	5.61	4.83	5.68	5.42	4.49	4.25	3.2	2.66	2.04	3.92
CN	Nanjing	32' 03" N	118' 53" E	2.04	2.22	2.65	4.5	3.84	4.47	4.93	4.5	3.67	3.02	2.88	2.08	3.4
CN	Shanghai	31' 10" N	121' 28" E	2.29	2.63	3.07	4.54	4.38	4.59	5.52	5.23	4.03	3.39	2.97	2.38	4.01
CN	Hongkong	22' 18" N	114' 10" E	2.59	2.56	3.06	3.93	4.13	4.74	5.81	4.95	4.68	4.05	3.56	2.93	4.18
ID	Jakarta	6' 11" S	106' 50" E	4.15	4.59	5	4.94	4.88	4.71	5.09	5.46	5.66	5.36	4.76	4.47	5.03
IL	Tel Aviv	32' 05" N	34' 46" E	2.78	3.5	4.73	6.03	6.86	7.87	7.81	7.22	6.19	4.63	3.32	2.62	5.73
IR	Tabriz	38' 48" N	46' 18" E	1.79	2.4	3.37	4.58	5.54	6.71	6.97	6.06	5.2	3.26	2.14	1.56	4.13
IR	Tehran	35' 40" N	51' 26" E	2.23	2.84	3.72	5.12	5.99	7.32	7.2	6.41	5.59	3.9	2.61	2.02	4.58
IR	Mashhad	36' 16" N	59' 34" E	2.22	2.97	3.88	5.21	6.29	7.49	7.41	6.78	5.7	4.13	2.78	2.06	4.74
IR	Bandar" Abbas	27' 15" N	56' 15" E	3.63	4.43	5.14	6.29	7.43	7.96	7.41	6.97	6.58	5.51	4.29	3.37	5.75
IN	New Delhi	28' N	77" E	3.68	4.47	5.5	6.6	7.08	6.55	5.01	4.62	5.11	4.99	4.15	3.42	5.1
IN	Bombay	18' 33" N	72' 32" E	5.22	6.03	6.66	7.05	6.77	4.59	3.54	3.4	4.72	5.39	5.15	4.8	5.28
IN	Bangalore	12' 57" N	77' 37" E	5	5.9	6.44	6.42	6.13	4.76	4.48	4.59	4.98	4.68	4.34	4.4	5.18
IQ	Baghdad	33' 20" N	44' 24" E	2.79	3.64	4.59	5.76	6.83	8.1	7.97	7.29	6.25	4.44	3.04	2.52	5.27
JO	Amman	31' 57" N	35' 57" E	2.93	3.67	4.83	6.04	6.88	7.91	7.86	7.27	6.25	4.71	3.47	2.76	5.8
JP	Tokyo	35' 45" N	139' 38" E	2.31	2.99	3.7	4.9	5.07	4.47	4.88	5.42	3.82	2.98	2.5	2.23	4
KH	Phnom penh	11' 33" N	104' 51" E	5.27	5.78	6.02	5.76	5.09	4.3	4.55	4.07	4.34	4.41	4.88	5.03	4.85
KP	P" yongyang	39' N	125' 18" E	2.5	3.35	4.5	5.17	5.6	5.35	4.51	4.63	4.22	3.51	2.46	2.09	4.2
KR	Seoul	37' 31" N	127' E	2.62	3.4	4.29	5.24	5.63	5.15	4.26	4.55	3.99	3.64	2.6	2.24	4.16
LA	Vientiane	18' 07" N	102' 35" E	4.3	4.94	5.52	5.74	5.11	4.24	4.22	4.19	4.61	4.26	4.21	4.24	4.63
LB	Beirut	33' 54N	35' 28E	2.64	3.4	4.63	6.03	6.96	7.9	7.84	7.19	6.13	4.5	3.14	2.44	5.68
MM	Yangon	16' 47" N	96' 09" E	5.4	6.06	6.65	6.69	5.14	3.24	3.3	2.99	4.12	4.51	4.82	5.05	4.65
MN	Ulaanbaatar	47' 55" N	106' 54" E	1.79	2.77	4.24	5.53	6.26	6.15	5.55	4.88	4.17	3	1.82	1.4	4.3
MY	Kuala Lumpur	3' 07" N	101' 42" E	4.54	5.27	5.14	5.05	4.8	4.98	4.91	4.78	4.54	4.51	4.23	4.07	4.7
NZ	Auckland	36" 52" S	174" 45"	6.37	5.9	4.71	3.43	2.44	2	2.25	2.95	4.13	5.23	6.05	6.56	4.34
NZ	Christchurch	43" 32s	172" 37e	5.9	4.95	3.86	2.75	1.72	1.31	1.47	2.15	3.3	4.34	5.43	5.64	3.57
NZ	Wellington	41" 17" S	174" 47"	6.27	5.31	4.17	3	1.95	1.54	1.74	2.46	3.66	4.7	5.73	6.01	3.88
OM	Mascat	23' 37" N	58' 37" E	4.34	5	5.85	6.69	7.54	7.56	6.91	6.71	6.55	5.93	4.95	4.23	6.29
PH	Cebu	10' 19" N	123' 54" E	4.53	5.15	5.83	6.25	5.9	4.83	4.76	4.93	4.96	4.75	4.49	4.44	5.07
PH	Manila	14' 37" N	120' 58" E	4.82	5.62	6.42	6.75	6.19	4.96	4.94	4.41	4.86	4.63	4.59	4.5	5.22
SA	Riyadh	24' 39" N	46' 42" E	4.03	4.92	5.56	6.24	7.27	7.99	7.86	7.46	6.83	5.8	4.58	3.82	6.03
SG	Singapore City	1' N	103' E	4.43	5.52	5.05	5.05	4.62	4.66	4.51	4.61	4.49	4.5	3.98	3.93	4.61
TH	Bang Kok	13' 45" N	100' 30" E	4.42	4.65	4.84	5.03	4.75	3.77	4.22	3.46	3.63	3.89	4.16	4.4	4.27
TH	Chiang Mai	18' N	99' E	4.79	5.51	6.11	6.29	5.53	4.44	4.16	4.18	4.5	4.34	4.28	4.48	4.88
TR	Ankara	39' 57" N	32' 53" E	1.77	2.38	3.69	4.54	5.53	6.63	6.99	6.55	5.22	3.24	1.99	1.51	4.17
VN	Hanoi	21' N	105' 54" E	2.52	2.94	3.81	4.34	4.66	4.51	4.62	4.62	4.57	3.64	3.29	3.17	3.89
YE	Aden	12" 50" N	45' 02" E	5.45	5.78	6.52	6.48	6.71	6.72	6.33	6.33	6.41	6.54	5.99	5.39	6.22

Data courtesy of: [NASA - Surface meteorology and Solar Energy Data Set](#)

Reference:

Whitlock, C. E., et al., Release 3 NASA Surface Meteorology and Solar Energy Data Set for Renewable Energy Industry Use.

Rise & Shine 2000, the 26th Annual Conference of the Solar Energy Society of Canada Inc. and Solar, Oct. 21-24, 2000, Halifax, Nova Scotia, Canada.

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